



3.4.1 Practice: Assignment Name: Isaiah Singh Date: 4/23/2020

Practice ALS Liberal Arts Math 1 Sem 2 Points Possible:10

Answer the following questions using what you've learned from this unit. Write your responses in the space provided.

Scoring: Each question is worth 2 points.

Formula

$$\text{Pythagorean theorem: } a^2 + b^2 = c^2$$

For questions 1 – 3, answer the questions about right triangles.

A right triangle has a hypotenuse of length 15 and a leg of length 9. What is the length of the other leg of the triangle?

A right triangle has a hypotenuse of length 21 and a leg of length 14. What is the length of the other leg of the triangle?

A right triangle has one leg of length 8 and another leg of length 9. What is the length of the hypotenuse of the triangle?

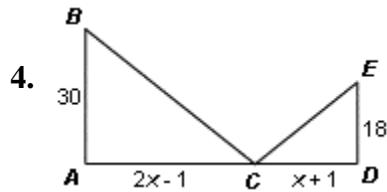
1. **Answer: The length of the other leg is 12**

2. **Answer: The length of the other leg is 15.65**

3. **Answer: The length of the other leg is 12.04**

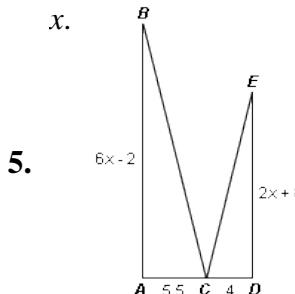
For questions 4 – 5, answer the questions about similar right triangles.

Given that $\triangle ABC \sim \triangle DEC$, find the value of x .



Answer: $x = 8$

Given that $\triangle ABC \sim \triangle DEC$, find the value of x .



Answer: $x = 4$

